

<p>97-148588/14 B04 D16 WAKP 95.07.13 WAKO PURE CHEM IND LTD *JP 09023886-A 95.07.13 95JP-177444 (97.01.28) C12N 15/09, C07H 21/04, C12N 1/21, 9/04 (C12N 15/09, C12R 1:91) (C12N 1/21, C12R 1:19) (C12N 9/04, C12R 1:91) (C12N 9/04, C12R 1:19) (Pro)phenol oxidase derived from a domestic silkworm - useful as a labelling oxidase and in pro-phenol oxidase activation system for detection of microorganisms C97-047464</p>	<p>B(4-E3E, 4-E8, 4-F1E, 4-L3A) D(5-C3B, 5-H4, 5- H12A, 5-H12E, 5-H17A3) .4</p> <p>USE The prophenol oxidase and phenol oxidase are derived from a domestic silkworm. The phenol oxidase may be used as a novel labelling oxidase. The elucidation of the primary structure of the prophenol oxidase will contribute to the reconstitution of a prophenol oxidase activation system which can be applied to the detection of microorganisms by measurement of β-1,3-glucan and peptide glycan.</p>
<p>Prophenol oxidase or phenol oxidase having the 685 or 634 amino acid sequences given in the specification respectively, are new.</p> <p>Also claimed are:</p> <ol style="list-style-type: none"> (1) DNA's encoding the above prophenol oxidase or phenol oxidase, based on the 2408 bp sequence given in the specification; (2) a recombinant vector contg. the DNA's of (1); (3) host cells transformed with the recombinant vector of (2); and (4) prodn. of the above prophenol oxidase or phenol oxidase by culturing the host cells and recovering the enzyme from the resulting culture. 	<p>PREPARATION Prodn. of the prophenol oxidase or the phenol oxidase is carried out according to conventional genetic means, i.e. by cloning the DNA in a plasmid, transformation of hosts with the plasmid, and prodn. of the oxidase in the hosts. (GS4) (18pp111DwgNo.0/2)</p> <p style="text-align: right;">JP 09023886-A</p>